FIG. 1

1　LOCAL NETWORK

2　PUBLIC NETWORK

15　CONTROL SECTION

16　STORAGE SECTION

17　FIRST COMMUNICATION CONTROL SECTION

18　SECOND COMMUNICATION CONTROL SECTION

31　CONTROL SECTION

32　STORAGE SECTION

33　COMMUNICATION CONTROL SECTION

34　DISPLAY SECTION

35　OPERATION SECTION

41　CONTROL SECTION

42　STORAGE SECTION

43　COMMUNICATION CONTROL SECTION

FIG. 3

S1 PROMPT USER TO ENTER USER NAME AND PASSWORD

S2 ACCEPT ENTRY OF USER NAME AND PASSWORD

S3 GENERATE UNIQUE INFORMATION

S4 DO ENCRYPTION RESULTS OF FIRST, SECOND INFORMATION MATCH?

INTERRUPT PROCESSING

S5 ENCRYPT USER NAME AND PASSWORD BY FIRST ENCRYPTION METHOD

S6 DECRYPT NETWORK ADDRESS OF AUTHENTICATION SERVER

S11 SEARCH FOR USER NAME AND PASSWORD

S12 ACQUIRE NETWORK ADDRESS OF CONNECTION SERVER

S13 ACQUIRE NETWORK ADDRESS OF CLIENT

S14 TRANSMIT NETWORK ADDRESS OF CLIENT

S15 WAIT

FIG. 4

S21   ALLOW ACCESS FROM CLIENT TO BE ACCEPTED FOR GIVEN TIME

S22   TRANSMIT MESSAGE INDICATING TRANSITION TO CONNECTION WAIT

STATE

S31   TRANSMIT CONNECTION COMMAND

S41   ENCRYPT USER NAME AND PASSWORD BY SECOND ENCRYPTION METHOD

S42   TRANSMIT SECOND ENCRYPTED USER NAME AND SECOND ENCRYPTED

PASSWORD

S51   DOES ENCRYPTED INFORMATION MATCH REGISTERED INFORMATION?

INTERRUPT PROCESSING

S52   START pptp COMMUNICATIONS